

PROJECT DESCRIPTION

I. GENERAL

This project involved the installation of the Uninterruptible Power Supply (UPS) system for the existing traffic signal system at the intersection of US 13 Business (S. Salisbury Boulevard) and E. Vine Street in Wicomico County.

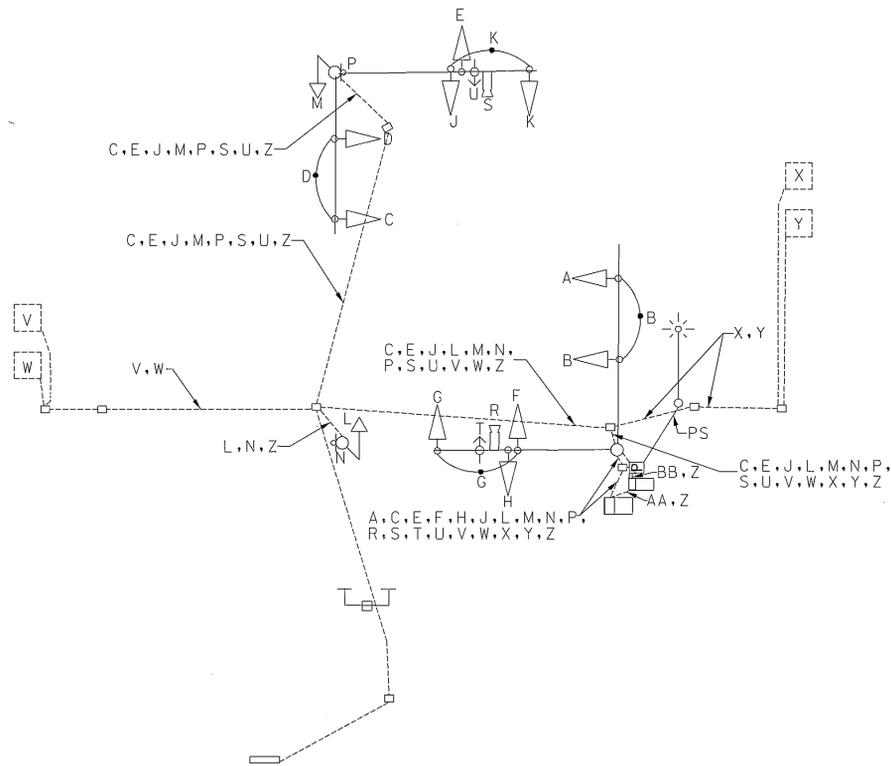
II. INTERSECTION OPERATION

The intersection operates in a NEMA four-phase, full-traffic-actuated mode. There are split phase operations on Vine Street, with an alternate pedestrian phase concurrent with eastbound Vine Street. There is a railroad pre-emption for phases two and six and a track clearance phase for phase three. This intersection uses a base mounted signal cabinet and UPS cabinet.

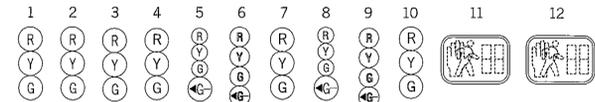
WIRING DIAGRAM

KEY

- A,C } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- E,F } 1 CONDUCTOR (NO. 8 AWG)
- H,J } 1 CONDUCTOR (NO. 8 AWG)
- AA } 1 CONDUCTOR (NO. 8 AWG)
- B,D } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- G,K } 1 CONDUCTOR (NO. 8 AWG)
- L,M } 1 CONDUCTOR (NO. 8 AWG)
- BB } 3 WIRE, 1 CONDUCTOR (NO. 4 AWG) THHN/ THWN
- T } 4 CONDUCTOR OPTICOM CABLE
- U } 1 CONDUCTOR (NO. 8 AWG)
- RS } VIDEO DETECTION CABLE
- N } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- P } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- Z } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- V } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) ALUMINUM SHIELDED
- W } 1 CONDUCTOR (NO. 8 AWG)
- X } 1 CONDUCTOR (NO. 8 AWG)
- Y } 1 CONDUCTOR (NO. 8 AWG)
- PS } POWER SERVICE



PHASE CHART



PHASE 2 AND 6	G	G	G	G	R	R	R	R	R	R	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	GG	GG	G	DW
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	DW
PHASE 4	R	R	R	R	GG	GG	G	R	R	R	DW	DW
4 CHANGE	R	R	R	R	Y	Y	Y	R	R	R	DW	DW
PHASE 4 ALT.	R	R	R	R	GG	GG	G	R	R	R	WALK	WALK
PEDESTRIAN CLEARANCE	R	R	R	R	GG	GG	G	R	R	R	FL/DW	FL/DW
4 ALT. CHANGE	R	R	R	R	Y	Y	Y	R	R	R	DW	DW
TRACK CLEARANCE	R	R	R	R	R	R	R	GG	GG	G	DW	DW
TRACK CLEARANCE CHANGE	R	R	R	R	R	R	R	Y	Y	Y	DW	DW
RAILROAD PRE-EMPTION	G	G	G	G	R	R	R	R	R	R	DW	DW
RAILROAD PRE-EMPTION CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK



SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 US 13 BUSINESS (S. SALISBURY BOULEVARD) AT E. VINE STREET
 SALISBURY, MARYLAND

GENERAL INFORMATION SHEET

SCALE N.T.S.	ADVERTISED DATE FEBRUARY 2010	CONTRACT NO.
DESIGNED BY	COUNTY	WICOMICO
DRAWN BY	LOGMILE	22B01302.64
CHECKED BY	TMS NO.	2955
F.A.P. NO.	TOD NO.	
TS NO. 1830G	DRAWING	OF SHEET NO. 2 OF 2

SABRA, WANG & ASSOCIATES, INC.
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